

Title (en)  
Exhaust gas purification apparatus

Title (de)  
Abgasreinigungsvorrichtung

Title (fr)  
Dispositif de purification de gaz d'échappement

Publication  
**EP 1382811 B1 20051102 (EN)**

Application  
**EP 02700641 A 20020220**

Priority  
• JP 0201499 W 20020220  
• JP 2001130109 A 20010426

Abstract (en)  
[origin: US2003172642A1] A particulate filter (22) is arranged in an exhaust passage of an internal combustion engine. Whether the particulate deposited on the particulate filter (22) has changed in property to a property harder to oxidize compared with right after deposition is predicted or judged. When the fact that the particulate deposited on the particulate filter (22) has changed in property to a property harder to oxidize compared with right after deposition is predicted or judged, the air-fuel ratio of the exhaust gas flowing into the particulate filter (22) is switched temporarily from lean to rich.

IPC 1-7  
**F01N 3/023**; F01N 3/021; F01N 9/00; F01N 3/025

IPC 8 full level  
**B01D 46/42** (2006.01); **B01D 53/94** (2006.01); **F01N 3/02** (2006.01); **F01N 3/023** (2006.01); **F02D 43/00** (2006.01); **F01N 9/00** (2006.01); **F02D 41/02** (2006.01)

CPC (source: EP KR US)  
**F01N 3/023** (2013.01 - EP US); **F01N 9/00** (2013.01 - KR); **F01N 9/002** (2013.01 - EP US); **F01N 2430/06** (2013.01 - EP US); **F02D 41/029** (2013.01 - EP US); **F02D 2200/0812** (2013.01 - EP US); **Y02T 10/40** (2013.01 - EP US); **Y10S 55/30** (2013.01 - EP US)

Cited by  
US7197867B2

Designated contracting state (EPC)  
DE ES FR GB IT SE

DOCDB simple family (publication)  
**EP 1382811 A1 20040121**; **EP 1382811 A4 20040609**; **EP 1382811 B1 20051102**; AU 2002233656 B2 20040610; CA 2415296 A1 20021219; CA 2415296 C 20050517; CN 1254605 C 20060503; CN 1462332 A 20031217; CZ 20024051 A3 20030618; CZ 298168 B6 20070711; DE 60207064 D1 20051208; DE 60207064 T2 20060803; ES 2250610 T3 20060416; HU P0301462 A2 20030929; JP 2002322908 A 20021108; JP 3707395 B2 20051019; KR 100517191 B1 20050928; KR 20030013458 A 20030214; PL 358130 A1 20040809; US 2003172642 A1 20030918; US 6820418 B2 20041123; WO 02090731 A1 20021114

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